



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/762,794 B
Source: 1600
Date Processed by STIC: 8/22/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Does Not Comply
Corrected Diskette Needed



1600

RAW SEQUENCE LISTING

DATE: 08/22/2003

PATENT APPLICATION: US/09/762,794B

TIME: 07:45:04

Input Set : A:\20276P - SeqList.txt

Output Set: N:\CRF4\08222003\I762794B.raw

4 <110> APPLICANT: Lowe, Robert S.
5 Jansen, Kathrin U.
6 Joyce, Joseph J.
7 McClements, William L.
8 Cook, James C. III
9 Ling, Jessica Ching-Yee
10 Neeper, Michael P.
12 <120> TITLE OF INVENTION: PROTEIN DELIVERY SYSTEM USING HUMAN
13 PAPILLOMAVIRUS VIRUS-LIKE PARTICLES
16 <130> FILE REFERENCE: 20276P
18 <140> CURRENT APPLICATION NUMBER: 09/762,794B
19 <141> CURRENT FILING DATE: 2001-02-09
21 <150> PRIOR APPLICATION NUMBER: PCT/US99/17931
22 <151> PRIOR FILING DATE: 1999-08-10
24 <150> PRIOR APPLICATION NUMBER: 60/096,638
25 <151> PRIOR FILING DATE: 1998-08-14
27 <160> NUMBER OF SEQ ID NOS: 16
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

119 <210> SEQ ID NO: 9
120 <211> LENGTH: 240
121 <212> TYPE: DNA
122 <213> ORGANISM: Human
124 <400> SEQUENCE: 9

E--> 125 atgcgacaca aacgttctgc aaaacgcaca aaacgtgcat cggctaccca actttataaa 60

E--> 126

acatgcaaac aggcaggtac atgtccacct gacattatac ctaagggtga aggcaaaact

120 attgctgac aaatattaca

128 <210> SEQ ID NO: 10
129 <211> LENGTH: 900
130 <212> TYPE: DNA
131 <213> ORGANISM: Human
133 <400> SEQUENCE: 10

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135 tctgatacct ctatagtttc tttagtggaa gaaactagtt ttattgatgc tgggtcacca 120
136 acatctgtac cttccatccc ccagatgta tcaggattta gtattactac ttcaactgat 180
137 accacacctg ctatattaga tattaataat actgttacta ctgttactac acataataat 240
138 cccactttca ctgacccatc tgtattgcag cctccaacac ctgcagaaac tggagggcat 300
139 tttacacttt catcatccac tattagtaca cataattatg aagaaattcc tatggataca 360
140 tttattgtta gcacaaaccc taacacagta actagtagca caccataacc agggctctgc 420
141 ccagtggcac gcctaggatt atatagtcgc acaacacaac aagttaaagt tgtagaccct 480
142 gcttttgtaa ccactccac taaacttatt acatatgata atcctgcata tgaaggata 540

the numbers wrapped to
next line. See additional page 1
for view of what file looks
like.

Please check rest of
the sequence listing
for problems
with
alignment

RAW SEQUENCE LISTING

DATE: 08/22/2003

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TIME: 07:45:04

Input Set : A:\20276P - SeqList.txt

Output Set: N:\CRF4\08222003\I762794B.raw

143 gatgtggata atacattata ttttcctagt aatgataata gtattaatat agctccagat 600
 144 cctgactttt tggatatagt tgctttacat aggccagcat taacctctag gcgtactggc 660
 145 attaggtaca gtagaattgg taataaacaa aactacgta ctgtagtgg aaaatctata 720

E--> 146
 ggtgctaagg tacattatta ttatgatttg agtactattg atcctgcaga agaaatagaa 780 ttacaaacta taacaccttc

148 <210> SEQ ID NO: 11
 149 <211> LENGTH: 282
 150 <212> TYPE: DNA
 151 <213> ORGANISM: Human
 153 <400> SEQUENCE: 11

E--> 154 ccggtaccat ctgtaccctc tacatcttta tcaggttata ttcttgcaaa tacaacaatt 60
 155 ccttttggtg gtgcatacaa tattccttta gtatcaggtc ctgatatacc cattaatata 120

E--> 156
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158 <210> SEQ ID NO: 12
 159 <211> LENGTH: 465
 160 <212> TYPE: DNA
 161 <213> ORGANISM: Human
 163 <400> SEQUENCE: 12

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 165 acatgcaaac aggcaggtag atgtccacct gacattatac ctaagggtga aggcaaaact 120
 166 attgctgata aaatattaca atatggaagt atgggtgtat tttttggtgg gtttaggaatt 180
 167 ggaacagggt cgggtacagg cggccgcgag ctcgagggtt atattcctgc aaatacaaca 240
 168 attccttttg gtggtgcata caatattcct ttagtatcag gtcctgatat acccataat 300

E--> 169
 ataactgacc aagtccttc attaatcct atagttccag ggtctccaca atatacaatt 360 attgctgatg cagggtgactt

171 <210> SEQ ID NO: 13
 172 <211> LENGTH: 154
 173 <212> TYPE: PRT
 174 <213> ORGANISM: Human
 176 <400> SEQUENCE: 13

177	Met	Arg	His	Lys	Arg	Ser	Ala	Lys	Arg	Thr	Lys	Arg	Ala	Ser	Ala	Thr
178	1				5					10					15	
179	Gln	Leu	Tyr	Lys	Thr	Cys	Lys	Gln	Ala	Gly	Thr	Cys	Pro	Pro	Asp	Ile
180			20					25					30			
181	Ile	Pro	Lys	Val	Glu	Gly	Lys	Thr	Ile	Ala	Asp	Gln	Ile	Leu	Gln	Tyr
182			35					40					45			
183	Gly	Ser	Met	Gly	Val	Phe	Phe	Gly	Gly	Leu	Gly	Ile	Gly	Thr	Gly	Ser
184		50					55					60				
185	Gly	Thr	Gly	Gly	Arg	Glu	Leu	Glu	Gly	Tyr	Ile	Pro	Ala	Asn	Thr	Thr
186	65				70					75					80	
187	Ile	Pro	Phe	Gly	Gly	Ala	Tyr	Asn	Ile	Pro	Leu	Val	Ser	Gly	Pro	Asp
188				85					90						95	
189	Ile	Pro	Ile	Asn	Ile	Thr	Asp	Gln	Ala	Pro	Ser	Leu	Ile	Pro	Ile	Val
190			100					105						110		
191	Pro	Gly	Ser	Pro	Gln	Tyr	Thr	Ile	Ile	Ala	Asp	Ala	Gly	Asp	Phe	Tyr
192			115					120								

E--> 193
 Leu His Pro Ser Tyr Tyr Met Leu Arg Lys Arg Arg Lys Arg Leu Pro 130

realign
 numbering

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/762,794B

DATE: 08/22/2003
TIME: 07:45:05

Input Set : A:\20276P - SeqList.txt
Output Set: N:\CRF4\08222003\I762794B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:9; Line(s) 126
Seq#:10; Line(s) 146
Seq#:11; Line(s) 156
Seq#:12; Line(s) 169
Seq#:13; Line(s) 193

VERIFICATION SUMMARY

DATE: 08/22/2003

PATENT APPLICATION: US/09/762,794B

TIME: 07:45:05

Input Set : A:\20276P - SeqList.txt

Output Set: N:\CRF4\08222003\I762794B.raw

L:126 M:360 E: Sequence data overflow, line data truncated, for SEQ ID#:9
L:126 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:16
L:126 M:252 E: No. of Seq. differs, <211> LENGTH:Input:240 Found:60 SEQ:9
L:146 M:360 E: Sequence data overflow, line data truncated, for SEQ ID#:10
L:146 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:16
L:146 M:252 E: No. of Seq. differs, <211> LENGTH:Input:900 Found:720 SEQ:10
L:156 M:360 E: Sequence data overflow, line data truncated, for SEQ ID#:11
L:156 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:16
L:156 M:252 E: No. of Seq. differs, <211> LENGTH:Input:282 Found:120 SEQ:11
L:169 M:360 E: Sequence data overflow, line data truncated, for SEQ ID#:12
L:169 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:16
L:169 M:252 E: No. of Seq. differs, <211> LENGTH:Input:465 Found:300 SEQ:12
L:193 M:252 E: No. of Seq. differs, <211> LENGTH:Input:154 Found:128 SEQ:13

<210> 9
<211> 240
<212> DNA
<213> Human

<400> 9

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60aatgcaaac aggcaggtag atgtccacct gacattatac ctaagggtga aggcaaaact
120attgctgac aaatattaca atatggaagt atgggtgtat tttttggtgg gttaggaatt
180ggaacagggt cgggtacagg cggacgcact gggtatatc cattgggaac aaggcctccc

240

<210> 10
<211> 900
<212> DNA
<213> Human

<400> 10

acagctacag atacacttgc tctgtgaaga ccccttttaa cagtagatcc tgtgggccct 60
tctgacccct ctatagtttc tttagtggaa gaaactagtt ttattgatgc tgggtgcacca 120
acatctgtac cttccatccc cccagatgta tcaggattta gtattactac ttcaactgat 180
accacacctg ctatattaga tattaataat actgttacta ctgttactac acataataat 240
cccactttca ctgacccatc tgtattgcag cctccaacac ctgcagaaac tggagggcat 300
tttacacttt catcatccac tattagtaca cataattatg aagaaattcc tatggataca 360
tttattgtta gcacaaaccc taacacagta actagtagca caccataacc agggctctgc 420
ccagtggcac gcctaggatt atatagtgc acaacacaac aagttaaagt tgtagaccct 480
gcttttgtaa ccaactccac taaacttatt acatatgata atcctgcata tgaaggata 540
gatgtggata atacattata ttttctagtt aatgataata gtattaatat agctccagat 600
cctgactttt tggatatagt tgctttacat aggcagcat taacctctag gcgtactggc 660
attaggtaca gtagaattgg taataaacia acactacgta ctcgtagtgg aaaatctata 720
ggtgctaagg tacattatta ttatgatttg agtactattg atcctgcaga agaaatagaa 780
ttacaaacta taacaccttc tacatatact accacttcac atgcagcctc acctacttct 840
attaataatg gcttatatga tatttatgca gatgacttta ttacagatac ttctacaacc 900

Wrapping